



NEWSLETTER

OF THE SOCIETY FOR THE HISTORY OF TECHNOLOGY

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SECRETARY'S MESSAGE

Thanks to all for making Toronto a memorable meeting. We had 355 registrants, making this one of the biggest solo meetings of all time. That meant some crowded sessions, but better too many than too few. Our collective congratulations to Janis Langins, Bert Hall and Muna Salloum for their hard work on Local Arrangements. Quite a banquet, though I never got the chance to finish reading the Milton quote which ran around the entire hall. Blame it on new bifocals. I take it as a sign of our continuing youth and vigor that hotel security had to break up the party in the hospitality suite Saturday night. No grand piano for Jim Williams to play this year, or we would have been out of there on Friday.

As David Hounshell explained at the business meeting and at the banquet, the Campaign for SHOT is rolling along, but we need reinforcements. Those who have already given will soon receive a token of our gratitude, in the form of a reminder to pay their second year pledge. Those who have contributed have done so generously, but we will only meet our \$2 million goal for endowing the Editorship of *Technology and Culture* if everyone does their part. If every one of us follows David's very sensible rule of thumb—\$100 for each year of membership—we will surpass our goal by a comfortable margin. Assuming we are lucky enough to earn a Challenge Grant from the NEH and a couple of key contributions from foundations or individuals, we should be able to put *T&C* on firm financial footing. But we must have your help, not just cash but contacts which can help us raise funds. I know that David Hounshell and Vice-President Rosalind Williams will appreciate all suggestions. And your pledges.

You will find the election results elsewhere in this issue. As I always say, you cannot have elections without candidates, and we owe everyone willing to stand for election a special debt. Speaking of officers and elections, SHOT will be looking for a new Secretary beginning in January 2004. Where did those years go? I could tell you, but I'm only allotted so much space. As required by our constitution, an ad hoc committee will be established this coming January to consider candidates. Con-

trary to popular wisdom, the Secretary's crest is not the twisted arm, but it is true that SHOT needs someone willing to shoulder this responsibility. Why should you consider serving the Society in this capacity? You get an all-expenses-paid trip from the ACLS each fall to hobnob with fellow secretaries and executive directors in such exotic locations as Milwaukee, Pittsburgh, Boise, and Anaheim, to name the last four. You learn details (and the loopholes) of contract law. You have your very own Newsletter column. Your e-mail box will never be empty, and neither will your file drawers. You can even publish a book of collected memos when you retire. *(continued on page 2)*

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SHOT Newsletter Editorial Policies, Advertising Rates, and Submissions Deadlines

The *SHOT Newsletter* is published quarterly in April, July, October, and January and is sent to all individual members of the Society. Items for inclusion will be published **if received by the 1st of the previous month**. Please note that material for the newsletter may be submitted via electronic mail. Non-members and institutions may receive the *Newsletter* by separate subscription for \$15 per year. The *Newsletter* can also be read at the SHOT website.

Readers should verify closing dates and other information provided by institutions and sponsors; the editor and SHOT are not responsible for changes or typographical errors. Advertising for books, journals, and other matters related to the interests of the Society and its members is accepted if received by the 1st day of the previous month.

Advertising Rates: Full Page (7-1/2" x 9-1/2"), \$200;
 Halfpage (7-1/2" x 5" or 3" x 9-1/2"), \$150; Quarterpage (3" x 5"), \$100

The SHOT logo was created by Brickworks of London

Seriously, though, you will get to know SHOT in an entirely new way, and in doing so, you will realize how much all of us owe to the people who built and who sustain the Society. I can say from experience that being Secretary is more work than being a dean or a chair, and it certainly pays less, but then it's more fun. SHOT members really are as friendly and energetic as we say they are, and willing to put in serious work. You'll need some help, but thanks to Lindy Biggs and the Executive Council, you'll have it, in the form of a subsidy for an administrative assistant. I'm sorry to say that Mary Ann Myer does not come with the subsidy, but her detailed check lists and manuals and suggestions will make you an organizational mastermind, honest. So if the search committee comes calling, give them a careful hearing. Or contact them. I promise we'll do everything we can to make the transition as painless as possible, just as Lindy did for us. Consider becoming a Big SHOT; you'll have the polo shirt to prove it.

In our application for a Challenge Grant to the NEH, we explained how we wanted SHOT to become the electronic portal to the history of technology. I am constantly astonished by the number of visitors to SHOT's web site (29,000 plus the last six months), but we need to provide resources to an audience beyond our membership, to students and teachers, to journalists, to the broader public. That will mean redesigning our site and giving it features which will appeal to that wider audience. The Executive Council has appropriated funds for this purpose, but we need good ideas as well as funding. What features should our web site have? Clearly, we should have a copy of the current cover of *T&C* there, linked to the current table of contents and to electronic back issues when those become available. What about brief descriptions of all Dibner Award nominated exhibits, with links to the museums? Or a syllabus of the month? Or a query or quiz of the week? Could we ask major presses in the field to advertise new titles with covers and links to their current offerings? We'd love to hear your suggestions. We intend to hire, or contract for, a dedicated web master, which many societies now have, but we can't expect that person to have all the ideas. So give us yours.

Stuart W. Leslie
 Johns Hopkins University

SOCIETY NEWS

SHOT Election Results**Vice President/President Elect**

Rosalind H. Williams, MIT

Treasurer

Richard Hirsh, Virginia Tech

Secretary

Stuart W. Leslie, Johns Hopkins University

Executive Council

Janet Abbate, University of Maryland-College Park

Arne Kaijser, Royal Institute of Technology,
Stockholm

Eric Schatzberg, University of Wisconsin-Madison

Editorial Committee

Ron Kline, Cornell University

Advisory Council

James W. Cortada, IBM

Nelly Oudshoorn, University of Twente

Richardson Dilworth, Drexel University

Nominating Committee

Deborah G. Douglas, MIT Museum

David L. Morton, IEEE History Center

SHOT Prize Winners for 2002**Leonardo da Vinci Medal:** Leo Marx**Edelstein Prize (formerly Dexter Prize):** Martin V. Melosi (University of Houston), *The Sanitary City: Urban Infrastructure in America from Colonial Times to the Present* (Johns Hopkins University Press, 2000)**Sally Hacker Prize:** Bella Bathurst, *The Lighthouse Stevensons: The Extraordinary Story of the Building of the Scottish Lighthouses by the Ancestors of Robert Louis Stevenson* (Harper Collins, 1999)**Dibner Award:** "Shinkansen," the National Railway Museum, York, curators Belinda Morris, Richard Gibbon and Chris Mossop; and "World City," the Museum of London, curators Alex Werner and Karen Fielder.**Abbott Payson Usher Prize:** Wiebe E Bijker (Universiteit Maastricht) and Karin Bijsterveld (Universiteit Maastricht), 'Walking through Plans: Technology, Democracy and Gender Identity,' *Technology and Culture* 41,3 July 2000,485-515**IEEE Life Members' Prize in Electrical Engineering:** Stuart W. Leslie (Johns Hopkins University), "Blue Collar Science: Bringing the Transistor to Life in the Lehigh Valley" *HSPS* 32:1 (2001): 71-113.**Samuel Eleazar and Rose Tartakow Levinson Prize:** Timothy S. Wolters (MIT), "Beyond the Line: Signalling Technology and Professionalization in the Eighteenth Century Royal Navy"**2001 Joan Cahalin Robinson Prize:** Lara Freidenfelds (Harvard University), "Technology and the Production of Gendered and Classed Subjects: Tampons in the Twentieth Century United States"**Brooke Hindle Post Doctoral Fellowship:** Kathleen Franz of the University of North Carolina**Kranzberg Dissertation Fellowship:** Judith Schueler (Eindhoven University of Technology), "Materialising Identities: The Mutual Construction of Inter/National Identities and Large Scale Technologies"**International Scholars:**

Nikolai Kremmentsov (Russia)

Andre Grelon (France)

Hocine Khelfaoui (Algeria)

Henrik Bjorck (Sweden)

Andrea Gaylor (Australia)

Call for Dibner 2003 Nominations

The Society for the History of Technology invites nominations for its Dibner Award, established in 1985 to recognize excellence in museums and museum exhibits that interpret the history of technology, industry, and engineering to the general public. Winning exhibits, in addition to being well designed and produced, should raise pertinent historical issues. Artifacts and images should be used in a manner that interests, teaches, and stimulates both the general public and historians.

The winners will be announced at the Society's Annual Meeting in Atlanta, Georgia, USA, October 16-19, 2003. The Award consists of a plaque and up to \$1000.00 to cover expenses for

a member of the design team to accept the award at the SHOT awards banquet. The Society especially encourages nominations from local and regional historical societies. "Virtual" exhibits are not eligible for the award.

Anyone, including the institution or individual responsible for its creation, may nominate an exhibit for the Dibner Award. Exhibits should be currently on view and have opened within the past two years. Nominations should include a nomination form with names of possible reviewers (not affiliated with the development of the exhibit) and materials that will assist the committee in evaluating the exhibition (exhibit script, related publications, videotape, photographs, educational materials and website address). All materials sent will be kept by SHOT for archival purposes.

The deadline for nominations for the 2003 award is 1 February 2003. Nominations forms can be obtained from the SHOT website and should be sent to the Committee Chair:

Maggie Dennis
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Tel: 202-357-2096, Fax: 202-357-4517
e-mail: dennism@nmah.si.edu

NEWS OF MEMBERS

Chemical Heritage Foundation (CHF) has named **Regina Lee Blaszczyk**, Ph.D., director of the Beckman Center for the History of Chemistry at CHF. In this new role, Blaszczyk will oversee the staff and operations of the Beckman Center including all events and programs.

William M. McBride was awarded the ASME Engineer-Historian Award for an outstanding published work or works by an engineer dealing with the history of mechanical engineering for *Technological Change and the United States Navy 1865-1945* (2000 Johns Hopkins University Press).

Bruno Giberti (California Polytechnic State University) announces the publication of his book *Designing the Centennial: A History of the 1876 International Exhibition in Philadelphia* (University Press of Kentucky). This is the inaugural volume in the series *Material Worlds*, which is edited by Simon J. Bronner.

Adam Rome (Pennsylvania State University) won the 2002

Frederick Jackson Turner Award for *The Bulldozer in the Countryside: Suburban Sprawl and the Rise of American Environmentalism* (Cambridge University Press, 2001). The Turner prize is awarded by the Organization of American Historians for the best first book on any topic in American history.

Bayla Singer announces her book *Sex With Gods; A Cultural History of Flying* is scheduled to be published in the spring by Texas A&M University Press.

Gero von Randow, Senior Editor of the science pages of *Frankfurter Allgemeine Sonntagszeitung* (Germany) was awarded the Media Award of the German Mathematical Union (Deutsche Mathematiker-Vereinigung, DMV) for his achievements as a writer and editor in respect to the public understanding of mathematics.

News from the National Science Foundation

Bruce E. Seely
Program Director for Science and Technology Studies

Another transition is occurring at the Science and Technology Studies (STS) Program at NSF. As summer ends, I am completing a two-year turn as "rotator" and returning to Michigan Tech. **Keith Benson**, formerly executive secretary of the History of Science Society (1993-2000), becomes the new program director on August 19. Keith earned his doctorate at Orgeon State in 1979 in history of science/biological sciences and has taught at the University of Washington. He published *The American Development of Biology* (1988), and *The American Expansion of Biology* (1991) with co-editors Ronald Rainger and Jane Maienschein, as well as *Oceanographic History: The Pacific and Beyond* (2002) with co-editor Philip F. Rehbock. I am sure I leave the program in good hands, and also know that the community will continue to help Keith in all the ways that you have helped me over the past two years.

I would like to take this opportunity to do two things. First, I want to provide a brief report on the status of the STS program and some of the prospects it faces. Second, I want to remind readers of this newsletter about the funding opportunities available from the STS program.

The STS Program in 2002

In fiscal year 2002, the STS program received about 190 proposals, and made 39 grants for scholars awards, conferences, fellowships, and training grants, as well as 19 disserta-

tion improvement awards. The program supported this number of proposals by carefully pruning proposal budgets. The program's total budget was just over \$3.9 million, an increase of only 0.9 percent over the previous year.

But there are potentially important developments in the offing at the NSF's Social Science Directorate that could have a significant impact on all social science activities, including the STS program. First, Richard Lempert has arrived as the Division Director for Social and Economic Sciences from the University of Michigan. Rick's background is in law and in sociology, and he has been interested in the biology and society program in Ann Arbor. He is quite supportive of the work that the STS program supports. Potentially more important, the other good news is that the Social Sciences Directorate may be in line for substantial funding increases in fiscal year 2004 and 2005, if plans still under development come to fruition. No one is banking on such future promises, but the NSF's leadership is committed to a focused research area in the social sciences that will increase overall budgets. As part of Rick's effort to undertake his new duties, he asked every program to officer identify opportunities and needs within their community. I suggested the following areas for increasing funding within the STS program:

- Continuing to encourage STS scholars to make greater contributions to research on the societal implications of emerging science, engineering, and technology, especially in areas targeted by Foundation-wide initiatives. An aspect of this development is the encouragement of more collaborative projects, including multi-campus projects, since most STS scholars continue to pursue investigator-initiated projects, and to work as individuals.
- Developing greater opportunities for infrastructure projects — which in the STS program generally have been large documentary and editorial projects. Additional support would allow expansion of support for digital libraries and other tools relying upon electronic resources.
- Expansion of the Small Grants for Training and Research — a tool that has not been fully utilized by graduate programs in our field.
- Additional support for the core fields of history of science and history of technology, philosophy of science, and social studies of science. Too many budgets have had to be trimmed, and even then some good projects cannot be supported at all. Moreover, the core fields continue to show healthy intellectual development, with many new ideas emerging and growing. Philosophers of science,

for example, are devoting attention to the philosophy of psychology, stimulated in part by scientific advances in cognitive neuroscience and the development of brain scanning technology. And in the history and social studies of science and technology, a number of scholars are focusing on the senses, examining such topics as smell, sound, noise, touch, music, and visualization. At the same time, work in traditional areas remains strong, with some of the most exciting projects in the past couple of years focused on the medieval and early modern periods.

In short, the field and the program seem to be in pretty good shape, and to face exciting prospects. Stay tuned as the Social Sciences Directorate attempts to develop a research initiative that could provide the funding for these and other areas of research and scholarship.

Funding Opportunities

The STS Program has two target dates for the submission of proposals every year. The next submission date is February 1, 2003, followed by another cycle beginning on August 21, 2003. The Program also offers several forms of support to scholars with the science and technology studies umbrella. **STS Scholars Awards** are the usual mode for supporting research projects. These awards normally provide support to individual researchers for part or all of an academic year, for summer research, or for some combination of academic year and summer. **Collaborative Research** grants are similar, but allow for the cooperative efforts of two or more investigators. The STS program also provides **Postdoctoral Fellowships** for scholars within five years of the award date of their doctoral degrees, and **Professional Development Fellowships** for more senior scholars seeking to acquire expertise in science and engineering (for humanists and social scientists) or in history, philosophy and social studies of science (for engineers and scientists). **Doctoral Dissertation Improvement Grants** allow graduate students to meet research expenses not normally available through the student's university. **Small Grants for Training and Research** (competition for these awards is only in the fall) offer up to three years of support for sustained research efforts on an important issues for the STS community by providing support for a group of graduate students and postdoctoral fellows. Finally, the Program provides partial support for **Conferences and Workshops**, usually national or international conferences, symposia, and research workshops. Information on specific requirements and any budgetary and programmatic limits can be found in the program announcement on the STS home page (<http://www.nsf.gov/sbe/ses/sts/start.htm>) or directly at <http://www.nsf.gov/sbe/ses/sts/start.htm>

[/www.nsf.gov/pubsys/ods/getpub.cfm?nsf01159](http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf01159).

Also, please pay attention to the various documents linked to this page that offer suggestions and ideas about proposal preparation and writing.

A variety of Foundation-wide funding opportunities also exist that could be of interest to the STS community of scholars. The most important of these are **the Information Technology Research (ITR)** and **Nanoscale Science and Engineering (NANO)**. For several years, NSF has been supporting research that examines the societal implications of emerging science and engineering fields, and these two programs currently are the largest sources of new funding at NSF. STS scholars are better equipped than almost anyone else to study the societal implications of these cutting edge science and engineering fields. I am hopeful that historians, philosophers, and scholars working on the social studies of science will submit funding requests. Last year, two exploratory awards for NANO research were made to research teams headed by Davis Baird (philosophy of science, University of South Carolina) and Michael Gorman (science studies, University of Virginia). The NANO announcement for FY 2003 is available (<http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf02148>), and the Social Science Directorate expects to commit \$1 million to this area. The ITR announcement is just being approved as I write this note, and will offer even more support for social science research of all kinds, not just societal implications or STS-oriented research. In both cases, the success rate of proposals is not high, but the average award is much larger than regular STS awards. More importantly, I believe STS scholars have important contributions to make to research in these areas, so please look at these opportunities.

Two final notes

Evaluation Criteria

The NSF has for several years required that all proposals be evaluated using two primary criteria: the **scientific merit** of the project and its **broader impact**. The latter category can include the value of a project to scholars in other fields, or to the general public; linkages to educational activities; general public outreach; or the extent to which a proposal helps draw under-represented minorities into science and engineering. The important point is that not only should reviewers pay attention to these elements, but beginning in October, both categories must be addressed in the project summary or the proposal will be returned without review. It is recognized that some projects will be stronger in the second review criteria than others, but all proposals must comment upon both elements.

Thanks

I owe a special thanks to all of you who have helped the STS

program by providing reviews of proposals. The Program relies upon your expert judgement, your judicious comments and suggestions, your careful evaluations. Graduate students continue to tell us, for example, that your comments on their dissertation proposals were among the most useful assistance and comments they received in developing their research projects. I have not always been as timely in acknowledging your help as I should, so let me publicly thank everyone who has reviewed for us. And please continue to help us when we ask. The panel and the program really need your reviews.

I owe a larger debt to the STS Advisory Panel members who have assisted me in so many ways. Most of them serve three years, meeting twice a year to read and rank the projects you submit. But I have also leaned on them for advice and suggestions of many kinds, and learned so much from them about the various professional groups that share the intellectual umbrella of the STS program. They deserve all of your thanks, but mine especially. They've been great! So thank you all!

CALL FOR PAPERS

The Hagley Fellows at the University of Delaware invite paper proposals for **"Reinventing the Factory," the 2003 Hagley Fellows' Conference, March 28-29, 2003**. Amy Slaton, Professor of History at Drexel University and author of *Reinforced Concrete and the Modernization of American Building, 1900-1930* (Johns Hopkins University Press, 2001), will give the keynote address. Since the early industrial revolution, the factory has been recognized as a visible symbol and an important site for industrial production, technological innovation, labor relations, and political and economic change. This conference seeks to broaden our traditional understanding of what a factory is and how it has operated as a place of work, an architectural structure, and a social and cultural environment, which has evolved historically from the eighteenth to the twenty-first century. By making the factory the focus of analysis, they want to expand our understanding of how structures both real and imagined are built and how they have influenced the lives of laborers, managers, and consumers. They envision papers that expand the definition of the factory as a workspace to include agricultural fields, laboratories, hospitals, universities, and even web-based virtual factories. They are also interested in the role of scale in factory production and its relation to labor and production in addition to studies involving regional and geographic analysis. The design and representation of factories as physical spaces is another area papers might focus on especially in relation to racial dynamics and gender construction. They encourage submissions from a broad array of fields including but not limited to the

history of technology, industrialization, architecture and design, public health, the environment, agriculture, business, labor, and gender. Proposals, including a 500-word abstract and one-page CV, should be sent, by **December 1st** to Gabriella Petrick at gpetrick@udel.edu. If electronic submission is not possible, please mail materials to Gabriella M. Petrick, 236 Munroe Hall, Department of History, University of Delaware, Newark, DE 19716

35th Annual Meeting of Cheiron, The International Society for the History of Behavioral and Social Sciences, to be held June 19-22, 2003, at the University of New Hampshire in Durham, New Hampshire, USA. Submit papers, posters, symposia, or workshops on the history of the behavioral or social sciences or related historiographical and methodological issues. Send proposals as text or Rich Text (.rtf) documents by **January 13, 2003** to Program Chair, Homer Stavely, Psychology Department, Mailstop 3400, Keene State College, Keene, New Hampshire, 03435-3400, USA; email: tstavely@keene.edu; phone: (603) 358-2327; fax: (603) 358-2184. Conference Local Host is Ben Harris, Department of Psychology, UNH, Durham, NH 03824, USA; email: bh5@unh.edu; phone: (603) 862-4107; fax: (603) 862-4986. Additional available via the Cheiron web page, <http://www.psych.yorku.ca/orgs/cheiron/>.

21st Annual Mephistos Conference A Graduate Student Conference on the History, Philosophy, and Sociology of Science, Technology, and Medicine, Thursday March 6th - Saturday March 8th, 2003 University of Wisconsin - Madison, USA. Mephistos is a graduate student conference on the history, philosophy, and sociology of science, technology, and medicine that provides an opportunity for graduate students to present papers, participate in discussions, and meet other students in their field within a relaxed, informal setting. Each year Mephistos is held at a different institution. The Mephistos 2003 Organizing Committee welcomes the submission of papers from graduate students on topics which analyze issues in (or related to) the history, philosophy, and sociology of science, technology, and medicine. Papers should take no longer than 20 minutes to present (that is, they should be approximately 2,500 words long) and should be accompanied by a 200 word abstract. The abstracts should appear on a cover page along with the title, your institutional affiliation, and your name and contact details (your name should not appear anywhere else in the paper). Further, if possible, papers should be submitted as Word documents. Please note that as with previous years significant financial help will be offered to those presenting at the conference. **Deadline for submissions: January 15th, 2003** E-mail submissions to: tsullivan@wisc.edu If you have any questions or would like to request further

information concerning Mephistos 2003, please contact the organizers at the above address or visit the website at: <http://philosophy.wisc.edu/mephistos2003/mephistos.htm>

The Newberry Seminar on Technology, Politics, and Culture, co-sponsored by the University of Illinois at Chicago, Roosevelt University, the Illinois Institute of Technology, and Northwestern University call for papers for the 2002-03 academic year: This seminar provides a forum for "works-in-progress" that explores the relationship between technology, politics, and culture, broadly defined. It takes place on Fridays from 3:30-5:00 pm at the Newberry Library in Chicago. It is open to graduate students, faculty members, independent scholars, and professionals in related fields, such as engineering and urban planning. To maximize the time for discussion, papers are circulated electronically in advance. Priority is given to individuals who are at a stage of their research at which they can best profit from discussion, and to individuals who need a venue to present their work. Papers dealing with pre-1900 and non-U.S. topics are particularly welcome. If you are interested in presenting a paper, please send a one-page proposal along with a brief c.v. to Richard R. John, History Department M/C 198, University of Illinois at Chicago, 601 South Morgan Street, Chicago, IL 60607-7109; e-mail: rjohn@uic.edu; phone: 312-996-8569. The Newberry Library is unable to provide funds for travel or lodging, but can provide assistance in locating accommodations.

Fifth European Social Science History Conference Humboldt University, Berlin, Germany, 24 - 27 March 2004 The ESSHC aims at bringing together scholars interested in explaining historical phenomena using the methods of the social sciences. The conference is characterized by a lively exchange in many small groups, rather than by formal plenary sessions. The Conference welcomes papers and sessions on any topic and any historical period. It is organised in a large number of networks: Africa, Antiquity, Asia, Criminal Justice, Culture, Economics, Education and Childhood, Elites, Ethnicity and Migration, Family and Demography, Geography, Health, History and Computing, Labour, Latin America, Middle Ages, Nations and Nationalism, Oral History, Politics, Religion, Rural, Sexuality, Social Inequality, Technology, Theory, Urban, Women and Gender, World History. The Conference fee will be Euro 160 for participants who pay in advance, Euro 200 for participants who pay at the conference. One day attendance will be Euro 80 for participants who pay in advance, and Euro 100 for participants who pay at the conference. **The deadline for sending in a pre-registration form and abstract is 1 April 2003.** The Fifth European Social Science

History Conference is organised by the International Institute of Social History and the Humboldt University. Further information and an electronic pre-registration form for the Conference can be obtained from the Conference Internet site at <http://www.iisg.nl/esshc> or from the conference secretariat: European Social Science History Conference 2004, c/o International Institute of Social History, Cruquiusweg 31, 1019 AT Amsterdam, Netherlands. Telephone: +31.20.66 858 66 Fax: +31.20.66 541 81 Email: esshc@iisg.nl

FELLOWSHIPS

Each year, the **Bakken Library and Museum** in Minneapolis offers **visiting research fellowships** for the purpose of facilitating scholarly research in its collection of books, journals, manuscripts, prints, and instruments. The focus of the Bakken's collection is the history of electricity and magnetism and their applications in the life sciences and medicine. Significant holdings include the writings of natural philosophers, scientists, physicians, electro-therapists, and electrophysiologists of the 18th, 19th, and early 20th centuries. Related materials include mesmerism and animal magnetism, 19th-century ephemera concerning alternative electromedical therapies, and trade catalogues. The instrument collection includes electrostatic generators, magneto-electric generators, induction coils, physiological instruments, recording devices, and accessories. See the Bakken homepage (<http://thebakken.org>) for more details of the collections. The fellowship is a maximum of \$1,500 and is to be used to help to defray the expenses of travel, subsistence, and other direct costs of conducting research at the Bakken. The minimum period of residence is two weeks. The next **deadline is 15 February 2003**. Preference will be given to researchers who are interested in collaborating with The Bakken on exhibits or other programs. Beginning in 2003, the Bakken will also offer **research travel grants** for the purpose of facilitating scholarly research in its collection of books, journals, manuscripts, prints, and instruments. Grants up to a maximum of \$500 (domestic) and \$750 (foreign) are to be used to help to defray the expenses of travel, subsistence, and other direct costs of conducting research at The Bakken. The minimum period of residence is one week. There will be **two deadlines: 1 February 2003 and 1 July 2003**. For further details and application guidelines, please contact Elizabeth Ihrig, Librarian, The Bakken Library and Museum, 3537 Zenith Avenue South, Minneapolis, MN 55416, USA (telephone: 612-926-3878, extension 227; fax: 612-927-7265; e-mail: ihrig@thebakken.org and the web at www.thebakken.org

The **Special Collections Library at California State University, Fresno**, is pleased to announce the availability of a

research fellowship grant. Generously supported by Dr. Roger K. Larson, the purpose of the research fellowship is to support the individual research of graduate students, university professors, and independent scholars for an extended period at the Special Collections Library. Fellows will have the opportunity not only to conduct intensive research but also to give a lecture on their research to the campus community. The availability of the fellowship runs from July 1, 2003, through June 30, 2004. This grant will provide up to \$2,000 to fund transportation, lodging, and related research costs, such as photocopying and photographic reproduction. One grant is available in each fiscal year. Special Collections staff will assist the chosen fellow in obtaining housing. Borrowing privileges within the Henry Madden Library at California State University, Fresno, during the fellow's stay will be given. To apply, send your curriculum vitae, a research proposal of no more than four pages (including the dates of your visit), a proposed budget, and a description of the ultimate end result of your research. Letters of recommendation may be requested during the review process. They encourage you to contact them prior to applying in order to ascertain the viability of your proposal. You may call the Special Collections Library at (559) 278-2595. **Please send all materials by March 31, 2003, to:** Tammy Lau, Head, Special Collections Library, Henry Madden Library, 5200 N. Barton Avenue M/S ML34, California State University, Fresno, Fresno, CA 93740-8014. All applicants will be notified by April 30, 2003.

The Science, Medicine, and Technology in Culture initiative (SMTC) at Penn State University is offering **6 National Science Foundation graduate fellowships** for studies beginning in the fall of 2003. The initiative is co-directed by Londa Schiebinger, Sparks Professor of History of Science, and Robert N. Proctor, Ferree Professor of the History of Science. SMTC spans the departments of History, English, Philosophy, Anthropology, Women's Studies and several of PSU's leading departments of life, social, and physical sciences. Interested students should apply directly to a department for admission. For the Department of History, please contact Prof. Carol Reardon (car9@psu.edu). For the Department of English, please contact Prof. Jeffrey Nealon (jxn8@psu.edu). Students are also encouraged to affiliate with any of the 100-odd other PSU science strengths (e.g., Astrobiology, Molecular Anthropology, Environmental Studies, Cultural Geography, Evo-Devo, etc.). Applications are due January 15, 2003.

The American Philosophical Society Library accepts applications for **short-residential fellowships** for conducting research in its collections. The Society's Library located near Independence Hall in Philadelphia, is a leading interna-

tional center for research in the history of American science and technology and its European roots, as well as early American history and culture. The fellowships, funded by The Andrew W. Mellon Foundation, the Grundy Foundation, the Isaac Comly Martindale Fund, and the Phillips Fund, are intended to encourage research in the Library's collections by scholars who reside beyond a 75-mile radius of Philadelphia. The fellowships are open to both U.S. citizens and foreign nationals who are holders of the Ph.D. or the equivalent, Ph.D. candidates who have passed their preliminary exams, and independent scholars. Applicants in any relevant field of scholarship may apply. The stipend is \$2,000 per month, and the term of the fellowship is a minimum of one month and a maximum of three, taken between June 1, 2003 and May 31, 2004. Fellows are expected to be in residence for four consecutive weeks during the period of their award. There is no special application form and this notice provides all the essential information needed to apply. Applicants should submit the following: (1) cover sheet stating a) name, b) title of project, c) expected period of residence, d) institutional affiliation, e) mailing address, f) telephone numbers, and e-mail if available, and g) social security number; (2) a letter (not to exceed three single-spaced pages) which briefly describes the project and how it relates to existing scholarship, states the specific relevance of the American Philosophical Society's collections to the project, and indicates expected results of the research (such as publications); (3) a c.v. or résumé; and (4) one letter of reference (doctoral candidates must use their dissertation advisor). Guides to the collections are available on the Society's website: www.amphilsoc.org. Applicants are strongly encouraged to consult the Library staff by mail or phone regarding the collections. Address applications or inquiries to: Library Resident Research Fellowships, American Philosophical Society Library, 105 South Fifth St., Philadelphia, PA 19106-3386. Telephone: (215) 440-3400. **Applications must be received by March 1, 2003.** Notice of awards will be mailed after May 1, 2003.

The **National Air and Space Museum, Smithsonian Institution**, Washington, DC, wishes to announce the following fellowship opportunities for the academic year 2003-2004. Application deadline is **January 15, 2003**, and successful applicants will be notified by April. **Guggenheim Fellowship.** The Guggenheim Fellowship is a competitive three- to twelve-month in-residence fellowship for pre- or postdoctoral research in aviation and space history. Predoctoral applicants should have completed preliminary course work and examinations and be engaged in dissertation research. Postdoctoral applicants should have received their Ph.D. within the past seven years. A stipend of \$20,000 for predoctoral candidates and \$30,000 for postdoctoral candidates will be awarded, with limited additional funds for travel and miscellaneous expenses.

A. Verville Fellowship. The Verville Fellowship is a competitive nine- to twelve-month in-residence fellowship intended for the analysis of major trends, developments, and accomplishments in the history of aviation or space studies. The fellowship is open to all interested candidates with demonstrated skills in research and writing. An advanced degree in history, engineering, or related fields is not a requirement. A stipend of \$45,000 will be awarded for a 12-month fellowship, with limited additional funds for travel and miscellaneous expenses. **Ramsey Fellowship in Naval Aviation History.** The Ramsey Fellowship is a competitive twelve-month, in-residence fellowship in "U.S. Naval Flight History," including Navy and Marine Corps aviation, the history of rocketry, missile and space activities in U.S. naval service, biographical studies of naval aviators, and multinational comparative studies that include the United States. The fellowship is open to all interested candidates with demonstrated skills in research and writing. An advanced degree is not a requirement. A stipend of \$45,000 will be awarded for a 12-month fellowship, with limited additional funds for travel and miscellaneous expenses. Requests for fellowship application packages should be sent to: *Ms. Collette Williams, Fellowship Coordinator, Rm. 3313, National Air and Space Museum, Smithsonian Institution, Washington, D.C. 20560-0312; or email to: collette.williams@nasm.si.edu*. Application packages will be mailed around November 15 and will soon be made available on the Museum website at: <http://www.nasm.edu/nasm/joinnasm/fellow/fellow.htm>. Potential applicants are also encouraged to investigate the Smithsonian Institution's Office of Fellowships and Grants program. Information can be found at: <http://web1.si.edu/ofg/>. In addition to these fellowships, the Museum offers the **Charles A. Lindbergh Chair in Aerospace History**. Senior scholars with distinguished records of publication who are working on, or anticipate working on, books in aerospace history, are invited to write letters of interest for the academic year 2004-2005 or later. The Lindbergh Chair is a one-year appointed position; support is available for replacement of salary and benefits up to a maximum of \$100,000 a year. Please contact: for topics in aviation, Dr. Peter L. Jakab, Aeronautics Division, National Air and Space Museum, Smithsonian Institution, Washington, DC 20560-0312, peter.jakab@nasm.si.edu; for space history topics, Dr. Michael J. Neufeld, Space History Division; National Air and Space Museum, Smithsonian Institution, Washington, DC 20560-0311; mike.neufeld@nasm.si.edu.

Prizes

The Division of the History of Chemistry (HIST) of the American Chemical Society (ACS) solicits nominations for the

2003 Sidney M. Edelstein Award for Outstanding Achievement in the History of Chemistry. This award, first given to Dr. John Parascandola in 2002, honors the memory of the late Sidney M. Edelstein, who established the Dexter Award in 1956, and it also continues the outstanding tradition of the Dexter Award, which ended in 2001. The Edelstein Award is sponsored by Ruth Edelstein Barish and Family and is administered by HIST. In recognition of receiving the Edelstein Award, the winner is presented with an engraved plaque and the sum of \$3500, usually at a symposium honoring the winner at the Fall National Meeting of the ACS, which for 2003 will be held in New York City, September 7-11. The award is international in scope, and nominations are welcome from anywhere in the world. Previous winners of the Dexter and Edelstein awards have included chemists and historians from the U.S., Canada, Germany, France, Holland, Hungary, and Great Britain. Each nomination should consist of 1) a complete curriculum vitae for the nominee, including biographical data, educational background, awards, honors, publications, presentations, and other service to the profession; 2) a letter of nomination, which summarizes the nominee's achievements in the field of the history of chemistry and cites his/her unique contributions that merit a major award; and 3) at least two seconding letters. Copies of no more than three publications may also be included if they are available. All nomination material should be sent *in triplicate* to Professor Roald Hoffmann, Chair of the Edelstein Award Committee, Department of Chemistry and Chemical Biology, Cornell University, Baker Laboratory, Ithaca, NY 14853-1301 (e-mail: rh34@cornell.edu), by **31 December 2002**.

The European Society for Environmental History (ESEH) is soliciting submissions for its publication prize. The prize is intended to identify superior research in the environmental history of Europe carried out by younger scholars from all countries. The prize will be awarded for the best article published in an academic journal since the year 2000 and will be awarded at the next ESEH meeting in September 2003 in Prague. The ESEH publication prize is intended for an article on any subject in European environmental history published by a graduate student or scholar whose Ph.D. was not awarded before 2000. The winner will receive a complete copy of the Encyclopedia of World Environmental History, worth \$450. Applicants are asked to submit one copy of their published article by mail, together with a one-page curriculum vitae, to each member of the prize committee (addresses below.) The article can have been published in any European language. If the article was not published in English, however, applicants are required to submit a one-page summary in English of their article with their applications. Complete applications must be received by **May 1, 2003**. Further information on the Euro-

pean Society for Environmental History is available on its website: www.eseh.org.

**Dibner Institute Seminar in History of Biology:
The Human Dimensions of Ecology
May 18-24, 2003**

The Dibner Institute for the History of Science and Technology announces its 2003 Summer Seminar in the History of Biology. This year's seminar builds on the Dibner 2000 seminar, "Putting humans into ecology." Integrating humans into basic ecological concepts and theories is a pressing challenge for scientists and policy makers, one urgently needing historical perspective. What do we know from the past that can inform that discussion? How have assumptions and conclusions changed over time? The seminar will focus on questions central to understanding how and why humans should be integrated into ecological analyses.

Humans are an integral part of Earth's ecosystems, yet the science of ecology tends to place humans external to the biological system, and largely lacks a theoretical and conceptual framework for incorporating humans. Where exactly do humans fit into modern ecological theory? Getting humans into ecological theory requires joining the social and natural sciences, and some ecologists and social scientists are thinking about how this might be done. Examining various cases will provide substance for appreciating the complex theoretical and practical challenges.

From a historical and philosophical view, how did ecology get to this point? What political, social, and institutional factors shaped ecology's development? How did these factors differ in Europe and America? "Nature" is where most ecologists see their research focused, but what is "natural" and what is "not nature?" And what does that mean - specifically, do ecologists really want to say that no humans in an ecosystem is "natural" and humans in an ecosystem is "not natural?" This last view seems to pervade much of ecology as we might come to know it from reading the technical journals, but does that mean humans are an organism out of bounds for the best theoretical and conceptual ecological research? And if not, how do we include humans - and how have scientists done this in different ways over time?

The program will follow a modified workshop-type format in which participants (historians, philosophers, sociologists, ethicists, ecologists, and other environmental scientists) will explore the issues together. They will give preference to schol-

ars with a demonstrated interest and experience in the topic to promote rich, productive discussions and the integration of ideas and approaches. Many collaborative projects have resulted from past Dibner seminars; we expect the same this year. A goal of the seminar is producing a volume that summarizes the arguments in this emerging area of biological and historical research.

Organizers for the Dibner History of Biology Seminars are John Beatty, James Collins, and Jane Maienschein; for this seminar James Collins (jcollins@asu.edu) is the main contact. For further information about the seminar series, and for application materials and financial aid applications (note deadline of January 15, 2003), please contact: The Dibner Institute for the History of Science and Technology, Dibner Building, MIT E56-100, Cambridge MA 02139; (617) 253-8721; e-mail: Carla Chrisfeld (carlac@mit.edu).

Hagley Research Seminar Series 2002-2003

Dec. 12, Steven Mihm, New York University “Ghosts in the Machine: Counterfeiters, Bank Notes, and the Industrialization of Engraving in Antebellum America”

Jan. 9, Kevin Borg, James Madison University “Tinkering with Socio-technical Hierarchies: Reconfiguring Automobiles and Recreating Mechanics, 1918-1940”

Feb. 13, Roberta M. Moudry, Cornell University “The Corporate and the Civic: Metropolitan Life’s Home Office”

March 13, Matt Roth, University of Southern California and Automobile Club of Southern California “The Last New Deal Project: Entrepreneurial Bureaucrats and the Creation of the Los Angeles Freeway Network, 1939-1944”

April 10, Reggie Blaszyck, Chemical Heritage Foundation “Color Rx: Tales of Color and Fashion from the Modern Era”

May 8, Joy Parr, Simon Fraser University “National Cultures of Risk: Radiation Protection in Nuclear Industries”

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